### Group Name: DevsSkipQA

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Class: frontendIntegration			
Intention: The frontend part of the integration testing			
Methods	Intentions		
frontendIntegration	The constructor, but it also calls the run function with different input based on the parameter		
readfile	Read the transaction summary file after each session so that it can be used to merge all transaction file within a day		
writeFile	Write the merged transaction file		
run	Run the frontend with given inputs and file paths		

Class: backendIntegration			
Intention: The backend part of the integration testing			
Methods	Intentions		
backendIntegration	The constructor, but it also calls the run function with different input based on the parameter		
findpath	Locates the path of a specific transaction file with respect to dates		
runBackend	Run the frontend with given inputs and file paths		

Class: integrationTesting			
Intention: Class to simulate the integration testing			
Methods	Intentions		
main	The main function of the class that will ask the user to choose between daily test and weekly test and then test regarding input		

Please note that all inputs for integration test are stored inside of *frontendIntegration* 

#### (1) A source listing of our Daily and Weekly scripts.

Source Code: backendIntegration.java

frontendIntegration.java integrationTesting.java

integrationTesting.java consists of the weekly and daily scripts, and, by running this program, it will ask you daily or weekly, for you to decide to enter to run either daily or weekly.

frontendIntegration.java is for the run for front end, whereas backendIntegration.java is for the run for back end.

The order of the tests is to run the front end for that specific day first, and then the result will be written into the two files. After that, the back end would be run, and back end reads those two files, as inputs. Then, back end would write into two new files - the new master accounts file and new valid account list file. On the next day, the front end would read those two files, as inputs.

(*Note:* the front end also reads master accounts files because it is important for us to ensure that there was sufficient amount of balance when we are transferring. If front end only reads valid accounts, some faulty occurrences may happen, such as front end has allowed a customer to withdraw money but afterwards it is noticed that there's not enough balance in back end.)

#### (2) A printout of the set of transaction session inputs for one run of our Daily script.

One run of daily transaction session:

```
"login", "atm", "logout"
"login", "agent", "createacct", "1234567cisc327", "logout"
"login", "agent", "createacct", "7654321cisc328", "logout"
```

**Note:** All the transactions sessions are stored inside the class of *frontendIntegration*.

#### (3) A printout of the Merged Transaction Summary file from that same Daily run.

Merged transaction File from the same date:

!EOS!NEW 1234567 000 0000000 cisc327!EOS!NEW 7654321 000 0000000 cisc328!EOS!

**Note:** the colon symbol character "!" is used to separate each trans code.

## (4) A printout of the Master Accounts File after each of the five Daily runs made by our Weekly script.

Weekly:

Day1:

Merged transaction: !EOS!NEW 1234567 000 0000000 cisc327!EOS!NEW 7654321 000

0000000 cisc328!EOS!

Master Account: 7654321 0.0 cisc328!1234567 0.0 cisc327!

Day2:

Merged: DEP 1234567 10000 0000000 \*\*\*!EOS!DEP 7654321 10000 0000000 \*\*\*!EOS!NEW

9876543 000 0000000 cisc330!EOS!

Master: 9876543 0.0 cisc330!7654321 10000.0 cisc328!1234567 10000.0 cisc327!

Day3:

Merged:XFR 1234567 1000 7654321 \*\*\*!EOS!WDR 1234567 9000 0000000 \*\*\*!EOS!WDR 7654321 1000 0000000 \*\*\*!EOS!

Master:9876543 0.0 cisc330!7654321 10000.0 cisc328!1234567 0.0 cisc327!

Day4:

Merged: NEW 3456789 000 0000000 cisc329!EOS!EOS!EOS!

Master:9876543 0.0 cisc330!7654321 10000.0 cisc328!3456789 0.0 cisc329!1234567 0.0

cisc327!

Day5:

Merged: DEL 1234567 000 0000000 cisc327!EOS!NEW 9988776 000 0000000 cisc422!EOS!EOS!

Master:9988776 0.0 cisc422!9876543 0.0 cisc330!7654321 10000.0 cisc328!3456789 0.0

cisc329!

# (5) <u>An integration defect report</u> giving a table of any new problems we uncovered while integrating and running our system and what we did about them.

New Problems we uncovered	What we did about them
problem: did not manage to update master accounts file with "NEW" or "DEL"	solution: added lines to invoke updatemaster when transcode is new and del
problem: frontend did not manage to read master account file and valid account list the format that backend writes	solution: adjusted the readFile function in banking(front end), so it works better with backend
problem: errors found when checking spaces between transaction	solution: adjusted the code
problem: backend was not writing to file caused by null transaction read from frontend	solution: recoded the read and write of both ends to make sure that they work correctly